

WHAT IS CLAIMED IS:

1. An attitude adjusting device for a sphere comprising a roller for rolling a sphere mounted thereon by a rotation, and a stopper for abutting on a protruded portion present on a surface of the sphere to stop the rolling of the sphere,

wherein the roller includes a portion having a small diameter which is concaved along the surface of the sphere.

2. The attitude adjusting device according to claim 1, wherein an axially sectional shape of a surface of the portion having a small diameter is a substantially circular arc and a radius R_1 of the circular arc is 1.00 to 1.10 times as large as a radius R_2 of the sphere.

3. The attitude adjusting device according to claim 1, wherein the roller includes a plurality of grooves extended in an axial direction on a surface of the portion having a small diameter.

4. An attitude adjusting device comprising a roller for rotating to roll a golf ball taken out of a mold and having a spew stuck onto a surface thereof in a state in which the golf ball is mounted thereon; and

a stopper for abutting on the spew to stop the rolling of the sphere,

wherein the roller includes a portion having a small diameter which is concaved along the surface of the golf ball, and

an axially sectional shape of a surface of the portion having a small diameter is a circular arc and a radius R_1 of the circular arc is 21.3 mm to 23.5 mm.

5. The attitude adjusting device according to claim 4, wherein a rotating speed of the roller is 30 rpm to 130 rpm.

6. The attitude adjusting device according to claim 4, comprising two stoppers opposed to each other with the golf ball interposed therebetween, positions of both of the stoppers being set in such a manner that a difference ($L - D$) between a distance L between the stoppers and a diameter D of the golf ball is 0.1 mm to 0.6 mm.

7. A golf ball manufacturing method comprising the steps of:

forming a golf ball having a spew stuck onto a surface by a material put in a mold;

rolling the golf ball over a roller including a portion having a small diameter which is concaved along a surface of the golf ball;

stopping the rolling of the golf ball by abutment of the spew on a stopper; and

removing the spew.